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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,797	02/04/2004	Seung-Hwan Moon	YPL-0097	3347
75	90 08/30/2006		EXAMINER	
Cantor Colburn LLP			LAM, TUAN THIEU	
55 Griffin South Road Bloomfield, CT 06002			ART UNIT	PAPER NUMBER
<b></b>			2816	
		DATE MAILED: 08/30/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/771,797	MOON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tuan T. Lam	2816				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
<ol> <li>Responsive to communication(s) filed on 19 July 2006.</li> <li>This action is FINAL.</li> <li>This action is FINAL.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.</li> </ol>						
Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 18 and 19 is/are withdrawn from consideration.  5) Claim(s) is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) 14-17 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>04 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)  Office Ac	6) Other:					

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#### **DETAILED ACTION**

This is a response to the RCE filed 7/19/2006. Claims 1-19 are pending. Claims 1-17 are under examination. Claims 18-19 have been withdrawn from consideration.

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (US2003/0090614).

Kim et al.'s figure 14 shows a shift register having a plurality of stages, each
Stage (figure 15) comprising a pull up part (142), a current gate line driving signal (OUT), a first
control signal (signal at node N3), a clock signal (CK), a pull down part (144), a second control
signal (output signal of N4), a pull up driver (146) to generate the first control signal in response
to a previous gate line driving signal (IN), gate line driving signal from a following stage (CT),
an input voltage signal (VDD), a pull down driver (148) to generate the second control signal in
response to the first control signal and the input voltage signal, wherein the second control
signals swings between first and second voltage levels in association with the input voltage
(VDD) that swings between predetermined voltage levels, and wherein the first voltage level is
inherently capable of exceeding the threshold voltage level of the threshold voltage level of the

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pull down part that is increased due to deterioration thereof as called for in claims 1-7 and 12-13.

Regarding claims 8-10, figure 15 shows a pull up transistor (142), a hold transistor (NT5).

Regarding claim 11, figure 15 shows a pull down transistor (144).

## **Double Patenting**

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of USP 7,038,653. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are having common technical features.

Regarding claim 1, claim 1 of USP 7,038,653 recites each stage comprising a pull up section, a pull down section, pull up driving, first and second pull down driving sections, the second control signal swings between first and second voltage levels and wherein the first voltage level is inherently capable of exceeding the threshold voltage level of the pull down part that is increased due to deterioration thereof.

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Regarding claims 2-13, the recited limitations therein are inherently present in the limitations recited in claim 1 of USP 7,038,653.

### Response to Arguments

5. Applicant's arguments filed 7/19/2006 been fully considered but they are not persuasive.

# 35USC 102(e) and (b):

Regarding the rejection of claims 1-13 as being anticipated by Kim et al. (US 2003/0090614), applicant argues that Kim et al. fails to teach the second control signal swings between first and second voltage levels and wherein the first voltage level exceeds the threshold voltage level of the pull down part that is increased due to deterioration thereof is not persuasive. Figure 15 of Kim et al. reference shows the pull down driver 148 receiving first control signal (N3), VDD and VSS. The second control signal (N4) varies between first voltage level (Vdd) and a second voltage level (ground) in response to the first control signal, wherein first voltage level is inherently capable of exceeding the threshold voltage level of the pull down part that is increased due to deterioration thereof. Therefore, the limitations of claims 1-13 are fully met.

# **Double patenting:**

Regarding the double patenting rejection of claims 1-13 over claims 1-20 of USP 7,038,653, applicant argues that the USP 7,038,653 does not recite the deterioration compensation portion. However, it is noted that claim 1 of the present invention does not recite "the deterioration compensation portion. Therefore, claims 1-13 remain rejected over claims of USP 7,038,653.

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# Allowable Subject Matter

6. Claims 14-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tuan T. Lam Primary Examiner

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8/12/2006